e main parameters for selecting the resin are its performance, cost, processing characteristics and availability. Resin content,

flow, softening temperature, degree of tack and even cure cycle can be altered

if need be to suit variations in the process. The constituents of one suitable  $\ \ \,$ 

resin system are manufactured by Ciba Geigy and are readily available. The  $\,$ 

system in question is a brominated Bisphenol-A epoxy using Dicyandiamide (Dicy)

as the curing agent. Liquid unmodified Bisphenol-A may be added to the formulation to bring the softening point down. The system is flame retardant

and meets NEMA grade FR-4. It is conventionally used to manufacture high

quality electrical laminates, particularly printed circuit boards. The resin

system comprises:

Having thus described the physical construction of surge arresters in

accordance with the invention, apparatuses, methods and materials for their

manufacture, and an advantageous exemplary application thereof, it is to be

appreciated that variations and modifications, for example the use of a mechanically released elastomeric material instead of the heat-shrink material

herein particularly described, could be made without departure from the essence

of the invention, which is to encase a rigid solid-state arrester core comprising varistor blocks sealingly and without voids or gaseous entrapments

within an outer housing of polymeric heat-shrink material or mechanically-released elastomeric material with a heat shield of dielectric

material between the core and the outer housing to preserve the integrity of

the outer housing against high temperature transients arising under short-circuit failure conditions.

1. A method of manufacturing a gapless surge arrester com

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	Туре	L#	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	3	"9960357"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:14	-
2	BRS	L2	15	pre-woven adj fabric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:15	
3	BRS	L3	73	pre-woven	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:16	
4	BRS	L4	39	(prewoven or pre-woven) with fabric	EDO: TDO: DEDWENT:	2003/04/03 13:18	
5	BRS	L5	•	(woven or weave or weaved) with fabric	EDO TOO DEDMENT.	2003/04/03 13:19	
6	BRS	L6	1397 0	varistor or MOV	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:20	
7	BRS	ь7	17	5 and 6	PDO TDO DEDMENTE	2003/04/03 13:20	